

**10/565726**

**IAP6 Rec'd PCT/PTO 24 JAN 2006**

Attorney's Docket No. OMY-0052

## **AMENDMENT**

(Amended Claims under Article 19)

Replacement Sheets for Claims

International Application No.: PCT/JP2004/006395

Applicant(s): Takashi Yoshimine

Title: INFORMATION PROCESSING APPARATUS, PORTABLE  
DEVICE, AND INFORMATION PROCESSING METHOD

Rader, Fishman & Grauer PLLC

**Claims amended according to PCT Article 19**

What is claimed is:

1. (Amended) An information processing apparatus,  
comprising:

5           a mount device that is capable of being mounted to the  
user's head and that is capable of acquiring first picture  
information from information of user's surroundings; and  
a portable device having:

          means for storing map information,  
10           means for acquiring user's any position information  
and second picture information of the user's surroundings,  
the second picture information being different from the  
first picture information,

          means for setting a user's destination,  
15           means for searching the map information for the  
destination that has been set and setting a route to the  
destination according to user's present position  
information, and

          first informing means for informing the user of at  
20           least route information that has been set of the route  
information, the user's first picture information on the  
route and the user's second picture information on the route  
with vibration,

          wherein the portable device has a main body that has  
25           a first surface and a second surface opposite to the first  
surface,

          wherein the first informing means has a plurality of

vibration buttons that vibrate user's fingers, and

wherein each of the vibration buttons is composed of  
a first vibration button and a second vibration button  
disposed on the first surface and the second surface of the  
main body, respectively.

2. The information processing apparatus as set forth in  
claim 1,

wherein the mount device has:

second informing means for informing the user of at  
least one of the route information, the first picture  
information, and the second picture information with sound.

3. The information processing apparatus as set forth in  
claim 2,

wherein the portable device also has:

a sensor that detects an obstacle, and

wherein the first informing means or the second  
informing means has:

means for informing the user of information of the  
obstacle according to a detection signal of the sensor.

4. (Canceled)

5. (Amended) The information processing apparatus as set  
forth in claim 1,

wherein the first informing means has:

means for informing the user of a right-turn  
instruction and a left-turn instruction as the route  
information through the first vibration button and the  
second vibration button, respectively.

6. (Amended) The information processing apparatus as set forth in claim 1,,

wherein the first informing means has:

5 means for informing the user of the first picture information and the second picture information through the first vibration button and the second vibration button, respectively.

7. (Canceled)

8. (Canceled)

10 9. The information processing apparatus as set forth in claim 1,

wherein the first informing means has:

15 means for varying the state of the vibration according to at least one of the route information, the first picture information, and the second picture information.

10. The information processing apparatus as set forth in claim 1,

wherein the first informing means has:

20 a plurality of vibration buttons that vibrate the user's fingers, and

means for outputting information in combination of vibration states of the vibration buttons.

11. The information processing apparatus as set forth in claim 1,

25 wherein the portable device also has:

means for storing position information of a predetermined facility as the map information, and

means for informing the facility of the user's physiological state according to a user's operation input, and

wherein the route setting means has:

5 means for setting a route from the user's present position to the informed facility according to a user's operation input signal.

12. The information processing apparatus as set forth in claim 1,

10 wherein the mount device has:

an identifier that is disposed on the exterior of the mount device and that identifies a handicapped person.

13. The information processing apparatus as set forth in claim 1, further comprising:

15 solar power generation means disposed in at least one of the mount device and the portable device.

14. The information processing apparatus as set forth in claim 1, further comprising:

20 mechanical power generation means disposed in at least one of the mount device and the portable device.

15. (Amended) A portable device, comprising:

a main body that has a first surface and a second surface opposite to the first surface;

means for storing map information;

25 means for acquiring user's any position information and second picture information different from first picture information acquired by a mount device from information of

user's surroundings, the mount device being capable of being mounted to the user's head;

means for setting a user's destination;

5 means for searching the map information for the destination that has been set and setting a route to the destination according to the user's present position information; and

10 a first vibration button and a second vibration button that are disposed on the first surface and the second surface of the main body and that vibrate user's fingers so as to inform the user of at least route information that has been set of the route information, the user's first picture information on the route and the user's second picture information on the route with vibration.

15 16. (Amended) An information processing method, comprising the steps of:

storing map information;

20 causing a mount device capable of being mounted to the user's head to acquire first picture information from information of user's surroundings;

acquiring user's present position information as map information;

setting a user's destination;

25 searching the map information for the destination that has been set;

setting a route to the destination according to the user's present position information;

causing a portable device that the user is capable of carrying and that has a main body having a first surface and a second surface opposite thereto and first vibration button and a second vibration button disposed on the first surface and the second surface, respectively, to acquire second picture information from the information of the user's surroundings, the second picture information being different from the first picture information; and

informing the user of at least route information that has been set of the route information, the first picture information on the route and the second picture information on the route with vibration of the first vibration button and the second vibration button of the portable device.

17. (New) An information processing apparatus, comprising:

a mount device that is capable of being mounted to the user's head and that is capable of acquiring first picture information from information of user's surroundings; and

a portable device having:

means for storing map information,

means for acquiring user's any position information and second picture information from the information of the user's surroundings, the second picture information being different from the first picture information,

means for setting a user's destination,

means for searching the map information for the destination that has been set and setting a route to the destination according to user's present position

information, and

first informing means for informing the user of at least the route information that has been set of the route information, the user's first picture information on the route and the user's second picture information on the route with vibration,

wherein the portable device has a main body that has a first surface, a second surface opposite to the first surface, and a third surface nearly perpendicular to the first surface and the second surface,

wherein the first informing means has a plurality of vibration buttons that vibrate user's fingers, and

wherein each of the vibration buttons is composed of a first vibration button, a second vibration button, and a third vibration button disposed on the first surface, the second surface, and the third surface of the main body, respectively.

18. (New) The information processing apparatus as set forth in claim 17,

wherein the first informing means has:

means for informing the user of a right-turn instruction, a left-turn instruction, and a go-straight instruction as the route information through the first vibration button, the second vibration button, and the third vibration button, respectively.

19. (New) A portable device, comprising:

a main body that has a first surface, a second surface



opposite to the first surface, and a third surface nearly perpendicular to the first surface and the second surface;

means for storing map information;

5 means for acquiring user's any position information and second picture information different from first picture information acquired by a mount device from information of user's surroundings, the mount device being capable of being mounted to the user's head;

means for setting a user's destination;

10 means for searching the map information for the destination that has been set and setting a route to the destination according to the user's present position information; and

15 a first vibration button, a second vibration button, and a third vibration button that are disposed on the first surface, the second surface, and the third surface of the main body and that vibrate user's fingers so as to inform the user of at least route information that has been set of the route information, the user's first picture  
20 information on the route and the user's second picture information on the route with vibration.